Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

PROCEEDINGS.

Eight hundred and third Meeting.

May 24, 1887. — ANNUAL MEETING.

The PRESIDENT in the chair.

The Corresponding Secretary read the following letters: from Messrs. Martin Brimmer and J. Walter Fewkes, accepting Fellowship; from Professor William R. Ware, accepting Associate Fellowship; from the Hon. Frederic W. Lincoln, resigning his Fellowship. A letter was read announcing the death, on the 2d instant, of Professor Bernhard Studer, of Bern, Foreign Honorary Member, at the age of ninety-three years.

On the motion of the Corresponding Secretary, it was

Voted, To meet, on adjournment, on the third Wednesday in June, at eight o'clock.

The Reports of the Treasurer and Librarian were read and accepted.

The following papers were presented: —

"Acoustic Submarine Signals: for Use on Steam Vessels in Foggy Weather." By John M. Batchelder.

"Measurements of Telephonic Currents produced by a Blake Transmitter with varying Pressure." By Charles R. Cross.

Eight hundred and fourth Meeting.

June 15, 1887. — ADJOURNED ANNUAL MEETING.

The PRESIDENT in the chair.

In the absence of Professor Watson, Professor Putnam was appointed Secretary *pro tempore.*

The President made a brief statement of the indebtedness of the Academy to its late Fellow, Daniel Treadwell, and suggested that a special appropriation should be made for printing a memoir of Mr. Treadwell.

On the motion of the Treasurer, it was

Voted, That an appropriation of four hundred dollars ($400) be made for printing a memoir of Daniel Treadwell, by Dr. Morrill Wyman.

On the motion of the Treasurer, it was

Voted, To appropriate from the income for the ensuing year: —

For general expenses	$2,200.00
For publications	2,000.00
For the library	1,000.00

The President read the following report.

The Rumford Committee present the following report for the year ending with this Annual Meeting: —

An appropriation of $500 was made to Professor H. P. Bowditch to enable him to construct a calovimetric apparatus for physiological investigations.

An appropriation of $250 was made to Professor Trowbridge for investigations on radiant energy.

An appropriation of $250 was made to Professors Cross and Holman, for new researches in thermometry; and an appropriation of $75 for experiments on the effect of thermo-electric and other thermal actions upon the accuracy of the Munich-shunt method of measuring very strong currents of electricity.

An appropriation of $250 is recommended for the use of Mr. E. D. Leavitt, Jr., for work on pyrometry and other

methods of measuring high temperatures, to be done in connection with Professor Trowbridge.

The Treasurer has paid from the income of the Rumford Fund $368.50 for the Rumford Medals, $500 to Mr. W. H. Pickering, to aid him in observing the total eclipse of the sun in August, $250 to Professor Trowbridge for his research, $149.05 for books and journals on light and heat, and $463.13 for printing in the Memoirs or Proceedings papers relating to these subjects. Appropriations to the amount of $825 have not yet been paid and will come out of the income of the current year.

The Committee ask the Academy to act upon the annexed vote.

For the committee,

JOSEPH LOVERING, *Chairman.*

Voted, That an appropriation of $250 be made from the income of the Rumford Fund to aid Mr. E. D. Leavitt, Jr. in his work on pyrometry and other methods of measuring high temperatures.

The report was accepted and the Academy passed the vote recommended by the committee.

Professor Cooke presented the Annual Report of the Council.

The President read a letter from Dr. O. W. Holmes, in which he declined re-election to the office of Vice-President; also, a letter from Professor C. R. Lanman, Corresponding Secretary of the American Oriental Society, thanking the Academy for the use of its Hall for the meeting of the Society.

Dr. William Everett read a notice of the Hon. Charles Francis Adams, late President of the Academy, which he had prepared at the request of the Council.

Dr. Everett stated that on the 4th of July a memorial service would be held in Quincy in honor of Mr. Adams.

The Corresponding Secretary announced that memorial notices had been prepared, by the request of the Council, of Mr. Charles C. Perkins, by the Hon. Martin Brimmer, and of

Professor William R. Nichols, by Professor Francis H. Storer, and that they would appear in the Proceedings.

The following gentlemen were elected members of the Academy: —

Winfield Scott Chaplin, of Cambridge, to be a Resident Fellow in Class I., Section 4.

Eliot Channing Clarke, of Boston, to be a Resident Fellow in Class I., Section 4.

The annual election resulted in the choice of the following officers: —

JOSEPH LOVERING, *President.*
FRANCIS PARKMAN, *Vice-President.*
JOSIAH P. COOKE, *Corresponding Secretary.*
WILLIAM WATSON, *Recording Secretary.*
AUGUSTUS LOWELL, *Treasurer.*
HENRY W. HAYNES, *Librarian.*

Council.

WOLCOTT GIBBS,
CHARLES L. JACKSON,
CHARLES R. CROSS, } of Class I.

SERENO WATSON,
ASA GRAY,
HENRY W. WILLIAMS, } of Class II.

JOHN C. ROPES,
FREDERICK W. PUTNAM,
JUSTIN WINSOR, } of Class III.

Rumford Committee.

WOLCOTT GIBBS, JOSIAH P. COOKE,
EDWARD C. PICKERING, JOSEPH LOVERING,
JOHN TROWBRIDGE, GEORGE B. CLARK,
ERASMUS D. LEAVITT, JR.

Member of the Committee of Finance.

THOMAS T. BOUVÉ.

The President appointed the following standing committees: —

Committee of Publication.

JOSIAH P. COOKE, ALEXANDER AGASSIZ,
ASA GRAY.

Committee on the Library.

HENRY P. BOWDITCH, AMOS E. DOLBEAR,
EDWARD J. LOWELL.

Auditing Committee.

HENRY G. DENNY, THOMAS T. BOUVÉ.

The following papers were presented: —

"The Relative Values of the Atomic Weights of Hydrogen and Oxygen." By Josiah P. Cooke and Theodore W. Richards.

"Summary of the Observations of the Total Eclipse of the Sun, August 29, 1886." By William H. Pickering.

The following papers were presented by title: —

"The Action of Fluoride of Silicon on Organic Bases." By Arthur M. Comey and C. Loring Jackson.

"On Tribromtrinitrobenzol." By C. Loring Jackson and John F. Wing.

"Catalogue of all Recorded Meteorites, with a Description of the Specimens in the Harvard College Collection, including the Cabinet of the late J. Lawrence Smith." By Oliver W. Huntington.

Eight hundred and fifth Meeting.

October 12, 1887. — STATED MEETING.

The PRESIDENT in the chair.

The President announced the death of the following members: —

Alvan Clark, Mark Hopkins, and Charles E. Ware, Resi-

dent Fellows; Spencer F. Baird, Associate Fellow; Hugh A. J. Munro, Foreign Honorary Member.

Voted, To meet, on adjournment, on the second Wednesday in November.

Professor Charles R. Cross presented the following papers: —

"On the Inverse Electromotive Force of the Voltaic Arc containing Volatilized Salts."

"Further Studies of the Melting Platinum Standard of Light."

Eight hundred and sixth Meeting.

November 9, 1887 — ADJOURNED STATED MEETING.

The PRESIDENT in the chair.

The President announced the death of Gustav Kirchhoff, of Berlin, Foreign Honorary Member.

Professor Truman H. Safford presented the following papers: —

"On the Approach of the North Pole and the Polar Star."

"On the Right Ascension of Stars near the North Pole, observed at Williamstown, Massachusetts, (Field Memorial Observatory,) in the Year 1885."

The following paper was presented by Professor Trowbridge: —

"A Preliminary Investigation of the Velocity of Sound in Liquids." By Harold Whiting.

Eight hundred and seventh Meeting.

December 14, 1887. — MONTHLY MEETING.

The PRESIDENT in the chair.

Professor Holman presented a paper entitled, "Boiling Points of Naphthaline, Benzophenone, and Benzol under controlled Pressures, with special Reference to Thermometry." By Silas W. Holman and Walter H. Gleason.

Eight hundred and eighth Meeting.

January 11, 1888. — STATED MEETING.

The PRESIDENT in the chair.

Voted, To meet, on adjournment, on Wednesday, February 8, 1888.

Professor Cross presented the following papers: —

"Experiments on the Blake Microphone Contact." By George W. Patterson, Jr., and H. J. Tucker.

"On Possible Sources of Error in the Permanent-shunt Method of measuring the Strength of Currents." By William L. Puffer.

Professor William L. Hooper made a communication on a new form of standard resistance coil.

Eight hundred and ninth Meeting.

February 8, 1888. — ADJOURNED STATED MEETING.

A quorum was not present, and the Academy was not called to order.

Eight hundred and tenth Meeting.

March 14, 1888. — STATED MEETING.

The PRESIDENT in the chair.

The President announced the death of Asa Gray.

The following gentlemen were elected members of the Academy: —

Abbott Lawrence Rotch, of Boston, to be a Resident Fellow in Class I., Section 3.

Elihu Thomson, of Lynn, to be a Resident Fellow in Class I., Section 3.

George Fillmore Swain, of Boston, to be a Resident Fellow in Class I., Section 4.

Crawford Howell Toy, of Cambridge, to be a Resident Fellow in Class III., Section 2.

On the recommendation of the Rumford Committee, it was

Voted, To appropriate two hundred and fifty dollars ($250) from the income of the Rumford Fund to assist Professor Trowbridge in his work on metallic spectra.

The following papers were presented : —

" Historical Study at Babylon in the Sixth Century B. C." By David G. Lyon.

" An Instrument for determining the Direction and Velocity of Water Currents below the Surface." By Edward S. Ritchie.

The following papers were presented by title : —

" On Sulphopyromucic Acids." By Henry B. Hill and Arthur W. Palmer.

" Notes upon some Polypetalous Genera and Orders." By Asa Gray.

" Contributions to American Botany : — I. Some New Species of Plants of the United States. II. Some New Species of Mexican Plants, chiefly of Mr. C. G. Pringle's Collection in the Mountains of Chihuahua, in 1887. III. Description of some Plants of Guatemala." By Sereno Watson.

Mr. Sereno Watson exhibited and described a specimen of wild corn found in the mountains south of Guanaxuato in Mexico.

Eight hundred and eleventh Meeting.

April 11, 1888. — MONTHLY MEETING.

The PRESIDENT in the chair.

The following papers were presented : —

" The Proper Shape for Armature Cores in Dynamo-electric Machines." By William L. Hooper.

" Results of the Comparison of a Number of British Association Standards of the Units of Electrical Resistance." By William L. Hooper.

Eight hundred and twelfth Meeting.

May 9, 1888 — MONTHLY MEETING.

The PRESIDENT in the chair.

In the absence of the Recording Secretary, Mr. Haynes was appointed Secretary *pro tempore*.

The Corresponding Secretary read letters from Messrs. Rotch and Thomson, accepting Fellowship in the Academy; from the General Secretaries of the International Geological Congress, inviting the attendance of members of the Academy at the approaching meeting in London, in September; from the President of the American Philosophical Society in regard to a proposed international congress to consider the subject of a universal language; from the Audubon Monument Committee of the New York Academy of Sciences, soliciting subscriptions; from a committee in the Netherlands inviting subscriptions to the "Donders memorial fund."

The First Part of Volume XXIII. of the Proceedings was laid on the table.

The following papers were presented: —

"A Note on the Atomic Weight of Oxygen." By Josiah P. Cooke.

"On the Present Condition of the Subject of Color; together with an Account of Investigations at the Jefferson Physical Laboratory on the Invisible Rays of Light." By John Trowbridge.

"Result of Studies of the Strength of Electric Currents used in Telegraphy and in Microphones." By Charles R. Cross.